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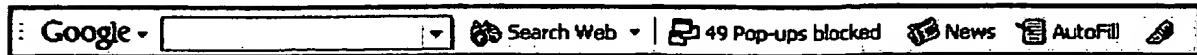
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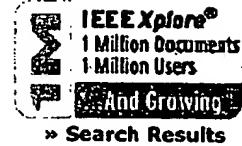
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1 Session 14B: Auction algorithms for market equilibrium

Rahul Garg, Sanjiv Kapoor

June 2004 **Proceedings of the thirty-sixth annual ACM symposium on Theory of computing**Full text available: [pdf\(187.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we study algorithms for computing market equilibrium in markets with linear utility functions. The buyers in the market have an initial endowment given by a portfolio of items. The *market equilibrium problem* is to compute a price vector which ensures market clearing, i. e. the demand of a good equals its supply, and given the prices, each buyer maximizes its utility. The problem is of considerable interest in Economics. This paper presents a formulation of the market equilib ...

Keywords: approximation algorithms, auction algorithms, market equilibrium**2 Insights and analyses of online auctions**November 2001 **Communications of the ACM**, Volume 44 Issue 11Full text available: [pdf\(193.94 KB\)](#) [html\(36.13 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)**3 Developing multiagent systems: The Gaia methodology**

Franco Zambonelli, Nicholas R. Jennings, Michael Wooldridge

July 2003 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 12 Issue 3

Full text available: [pdf\(346.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Systems composed of interacting autonomous agents offer a promising software engineering approach for developing applications in complex domains. However, this *multiagent system* paradigm introduces a number of new abstractions and design/development issues when compared with more traditional approaches to software development. Accordingly, new analysis and design methodologies, as well as new tools, are needed to effectively engineer such systems. Against this background, the contribution ...

Keywords: Multiagent systems, agent-oriented software engineering, analysis and design methodologies, distributed systems, software architectures**4 Applications: Recommender systems: a market-based design**

Yan Zheng Wei, Luc Moreau, Nicholas R. Jennings

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Recommender systems have been widely advocated as a way of coping with the problem of information overload for knowledge workers. Given this, multiple recommendation methods have been developed. However, it has been shown that no one technique is best for all users in all situations. Thus we believe that effective recommender systems should incorporate a wide variety of such techniques and that some form of overarching framework should be put in place to coordinate the various recommendations so ...

Keywords: auctions, mechanism design, recommender system

5 Electronic commerce: a half-empty glass?

Sasa Dekleva

June 2000 **Communications of the AIS**

Full text available: [pdf\(343.49 KB\)](#) Additional Information: [full citation](#), [references](#)

6 Session 3: Adaptive limited-supply online auctions

Mohammad Taghi Hajiaghayi, Robert Kleinberg, David C. Parkes

May 2004 **Proceedings of the 5th ACM conference on Electronic commerce**

Full text available: [pdf\(223.89 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study a limited-supply online auction problem, in which an auctioneer has k goods to sell and bidders arrive and depart dynamically. We suppose that agent valuations are drawn independently from some unknown distribution and construct an adaptive auction that is nevertheless value- and time-strategy proof. For the $k=1$ problem we have a strategyproof variant on the classic secretary problem. We present a 4-competitive (e-competitive) strategyproof online algorithm with resp ...

Keywords: auctions, online, pricing

7 Optimal solutions for multi-unit combinatorial auctions: branch and bound heuristics

Rica Gonen, Daniel Lehmann

October 2000 **Proceedings of the 2nd ACM conference on Electronic commerce**

Full text available: [pdf\(368.42 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: branch and bound, combinatorial auctions

8 An efficient approximate allocation algorithm for combinatorial auctions

Edo Zurel, Noam Nisan

October 2001 **Proceedings of the 3rd ACM conference on Electronic Commerce**

Full text available: [pdf\(479.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose a heuristic for allocation in combinatorial auctions. We first run an approximation algorithm on the linear programming relaxation of the combinatorial auction. We then run a sequence of greedy algorithms, starting with the order on the bids determined by the approximate linear program and continuing in a hill-climbing fashion using local improvements in the order of bids. We have implemented the algorithm and have tested it on the complete corpus of instances provided by Vohra ...

9 SouthamptonTAC: An adaptive autonomous trading agent

Minghua He, Nicholas R. Jennings

August 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 3

Full text available: [pdf\(571.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software agents are increasingly being used to represent humans in on-line auctions. Such

agents have the advantages of being able to systematically monitor a wide variety of auctions and then make rapid decisions about what bids to place in what auctions. They can do this continuously and repetitively without losing concentration. Moreover, in complex multiple auction settings, agents may need to modify their behavior in one auction depending on what is happening in another. To provide a means ...

Keywords: On-line auctions, bidding strategy, trading agent competition

10 Selling online versus offline: theory and evidences from Sotheby's

Eiichiro Kazumori

June 2003 **Proceedings of the 4th ACM conference on Electronic commerce**

Full text available: [pdf\(338.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider a recent business and policy question of "how and why does a firm use online markets versus traditional offline markets ?" using a unique dataset of more than 3000 auctions held by Sotheby's online at eBay and offline at New York in June-July2002. We find robust empirical regularities in our dataset about the use of online markets. First, the average transaction price is more than 10 times higher in offline markets. This fact strongly suggests that the seller is not simply randomly a ...

Keywords: auctions, electronic commerce

11 The simulation of a distributed control model for resource allocation and the implied pricing

Martin D. Fraser, Ross A. Gagliano

March 1989 **Proceedings of the 22nd annual symposium on Simulation**

Full text available: [pdf\(897.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The allocation of computing resources and the scheduling of tasks in a multitasking environment are simulated using a distributed control model. The tasks compete for computing resources in a decentralized manner through sealed bid auctions to improve their schedules, rather than having resources centrally administered by a host controller. Funds used for bidding are endowed to the tasks upon arrival at the computing system. The effects on completion times of three endowment strategies and ...

12 Virtual extension: Viewpoint: living and bidding in an auction economy

Anthony M. Townsend, James T. Bennett

December 2003 **Communications of the ACM**, Volume 46 Issue 12

Full text available: [pdf\(197.36 KB\)](#) [html\(10.34 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

13 An Internet-based negotiation server for e-commerce

Stanley Y.W. Su, Chunbo Huang, Joachim Hammer, Yihua Huang, Haifei Li, Liu Wang, Youzhong Liu, Charnyote Pluemphitiwiriyawej, Minsoo Lee, Herman Lam

August 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,

Volume 10 Issue 1

Full text available: [pdf\(355.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

This paper describes the design and implementation of a replicable, Internet-based negotiation server for conducting bargaining-type negotiations between enterprises involved in e-commerce and e-business. Enterprises can be buyers and sellers of products/services or participants of a complex supply chain engaged in purchasing, planning, and scheduling. Multiple copies of our server can be installed to complement the services of Web servers. Each enterprise can install or select a trusted negotia ...

Keywords: Constraint evaluation, Cost- benefit analysis, Database, E-commerce, Negotiation policy and strategy, Negotiation protocol

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